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 Title: **JP4206366A2: FLAT BATTERY**

 Country: **JP. Japan**

 Kind: **A**

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 Published / Filed: **1992-07-28 / 1990-11-30**

 Application Number: **JP1990000333743**

 IPC Code: **H01M 10/40; H01M 4/02;**

 Priority Number: **1990-11-30 JP1990000333743**

Abstract:

... PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

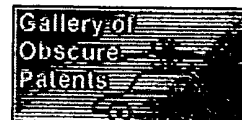
... CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

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 Family: **None**

 Other Abstract: **None**

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<p>(30) Priority:</p> <p>(43) Date of application publication: <b>28.07.92</b></p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: <b>SHIN KOBE ELECTRIC LTD. OTSUKA CHEM CO LT</b></p> <p>(72) Inventor: <b>NAKAI KENJI HIGASHIMOTO KOJI HIRONAKA KENSUKE HAYAKAWA TAKUMI KOMAKI AKIO NAKANAGA TAKEFUM TANIGUCHI MASATOSH</b></p> <p>(74) Representative:</p>
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**(54) FLAT BATTERY****(57) Abstract:**

**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

**CONSTITUTION:** On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a

polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

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